

Gracilaria edulis as phytoremediation agent to improve shrimp pond water quality

Abstract

Experimental tank cultivation of *Gracilaria edulis* has been performed without processing for seedlings. Based on logistic growth model, homogeneity and heterogeneity of growth were tested. The analysis was performed through a model selection approach with numerically- partitioned active biomass data. Based on the R² coefficient, the active and inactive biomass for vegetative propagation was 0.25% and 99.75%, respectively. The active portion of biomass was employed to logistic model showing R² coefficient of 0.9963. The results provide a concrete reason for the needs to activate biomass, and to manage the maximum sustainable yield in a phytoremediation system.